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DISTRIBUTION		
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5X1 [REDACTED]

5X1 ZEM  
TOP SECRET [REDACTED] CITE NPIC 9999.

SUBJECT: CAMERA INFORMATION FOR MISSION 1039-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON  
CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR	
FOCAL LENGTHS (MM)	609.628	609.628	FWD 55.000	FWD 54.850	Advance copy Sanitized
			AFT 55.000	AFT 54.900	

FILTER (WRATTEN NO.)	23A	21	25	25
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APERTURE	F3.5	F3.5	F8.0	F6.3
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SLIT WIDTH (IN)	.225	.175	1/100	1/100
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EXPOSURE (SEC)

FILM	3404	3404	3404	3404
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RESOLUTION (L/MM)	200	220	N/A	N/A
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B. S/I UNITS

STELLAR	INDEX	
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FOCAL LENGTH (MM) PART 1	84.0284	38.3894	
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PART 2	83.9873	38.3351	
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FILTER (WRATTEN NO.)	NONE	21	
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25X1

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APERTURE	F1.8	F4.5
EXPOSURE (SEC)	2.0	1/500
FILM	3401	3400
RESOLUTION (L/MM) PART 1	76	
PART 2	71	
UNIT NUMBER	PART 1	D103/131/132
	PART 2	D100/125/125

## 3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.002	.0	.0	.0	.0	.001	.003
AFT UNIT	.002	.001	.0	.0	.0	.002	.003

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.010	.030	.020	.020
20 DEGREES	.040	.100	.050	.060
(TANGENTIAL) MAX VECTOR	.025	.040	.030	.030

## 4. CAMERA ANGLES DEG. MIN.

A. ANGLE BETWEEN PAN CAMERAS	29		43.02
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B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	14	21.2
	FWD PORT	15	32.5
	AFT STAR	15	30.2
	AFT PORT	15	37.6

C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	89	58.8
	PART 2	89	59.2

## 5. TIMING MARKS

-3-

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
6	.3518	.0318	5	.0856	.0077	1 THRU 11
6	.3518	.0318	4	.0988	.0089	13 THRU 79

25X1

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